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(54)Title:　**RADIO DEVICE AND METHOD OF CALIBRATION OF ANTENNA DIRECTIVITY**

(54)発明の名称　　無線装置およびそのアンテナ指向性のキャリブレーション方法

(57) Abstract
A radio device includes an antenna (104), a transmitting circuit (102) and a receiving circuit (105) both sharing the antenna. During calibration, the output of the transmitting circuit is connected to the input of the receiving circuit to determine the amount of rotation of phase and/or amplitude variation of a signal passing through the transmitting and receiving circuits. A reference signal is fed to the input of the receiving circuit to determine the amount of rotation of phase and/or amplitude variation of the signal passing through the receiving circuit. By subtraction about the information, the amount of rotation of phase and/or amplitude variation of a signal passing through the transmitting circuit is determined, and from the information, the correction value for correcting the difference of the amount of rotation of phase and/or amplitude variation between the transmitting and receiving circuits is determined, thereby correcting the difference of the amount of rotation of phase and/or amplitude variation between the transmitting and receiving circuits.
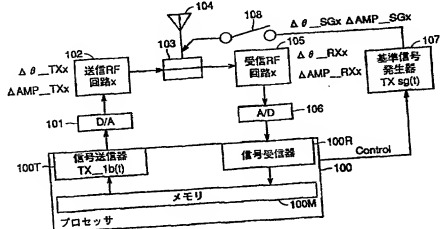
102...TRANSMISSION RF CIRCUIT x
105...RECEPTION RF CIRCUIT x
107...REFERENCE SIGNAL GENERATOR TX sg(t)
100T...SIGNAL TRANSMITTER TX_1b(t)
100R...SIGNAL RECEIVER
100M...MEMORY
100...PROCESSOR